

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P651258

Luminaire Tested: **GALN-SA2D-840-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651258
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-840-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9605.1 lumens
Efficiency: N/A
Efficacy: 76.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

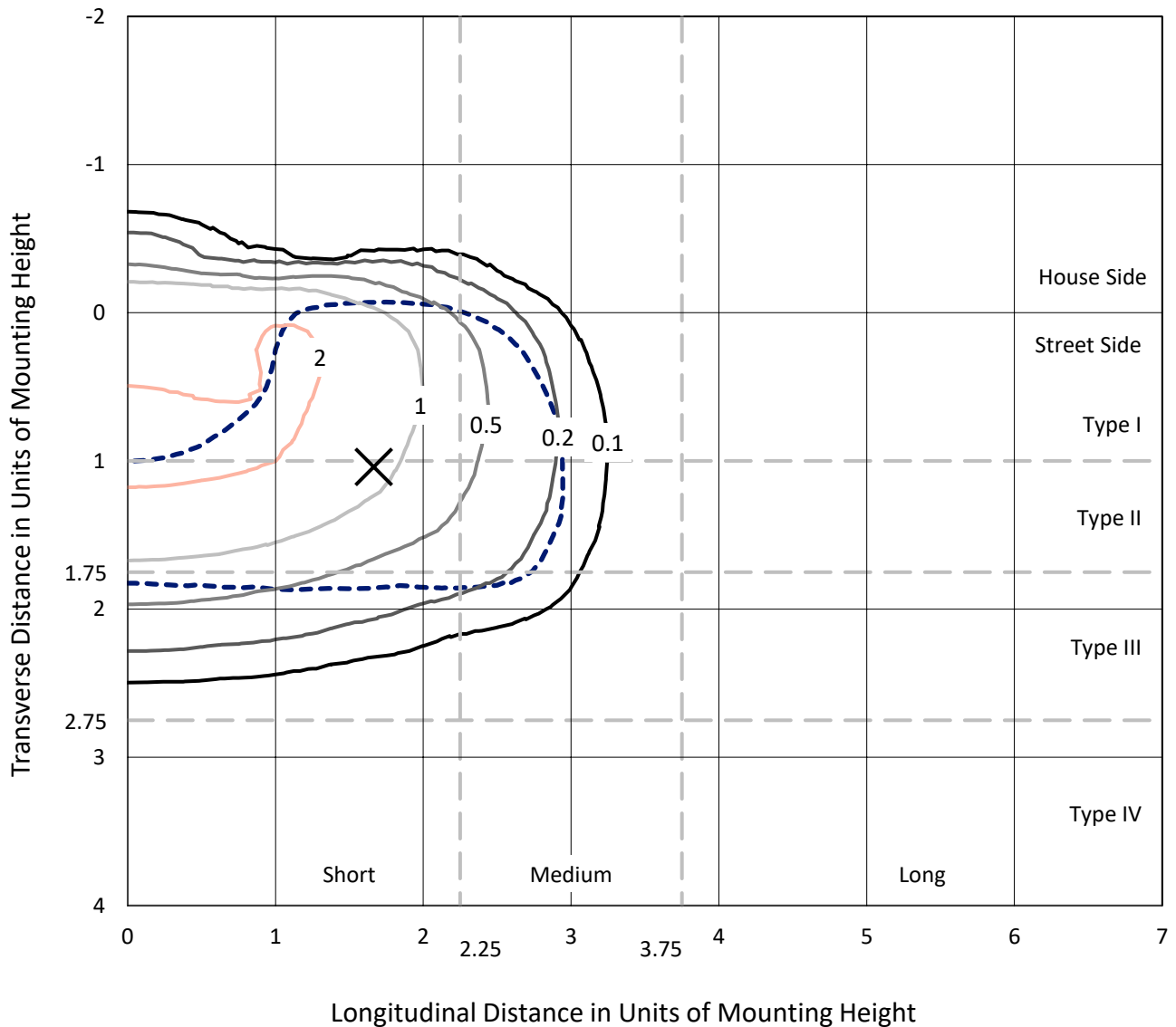
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

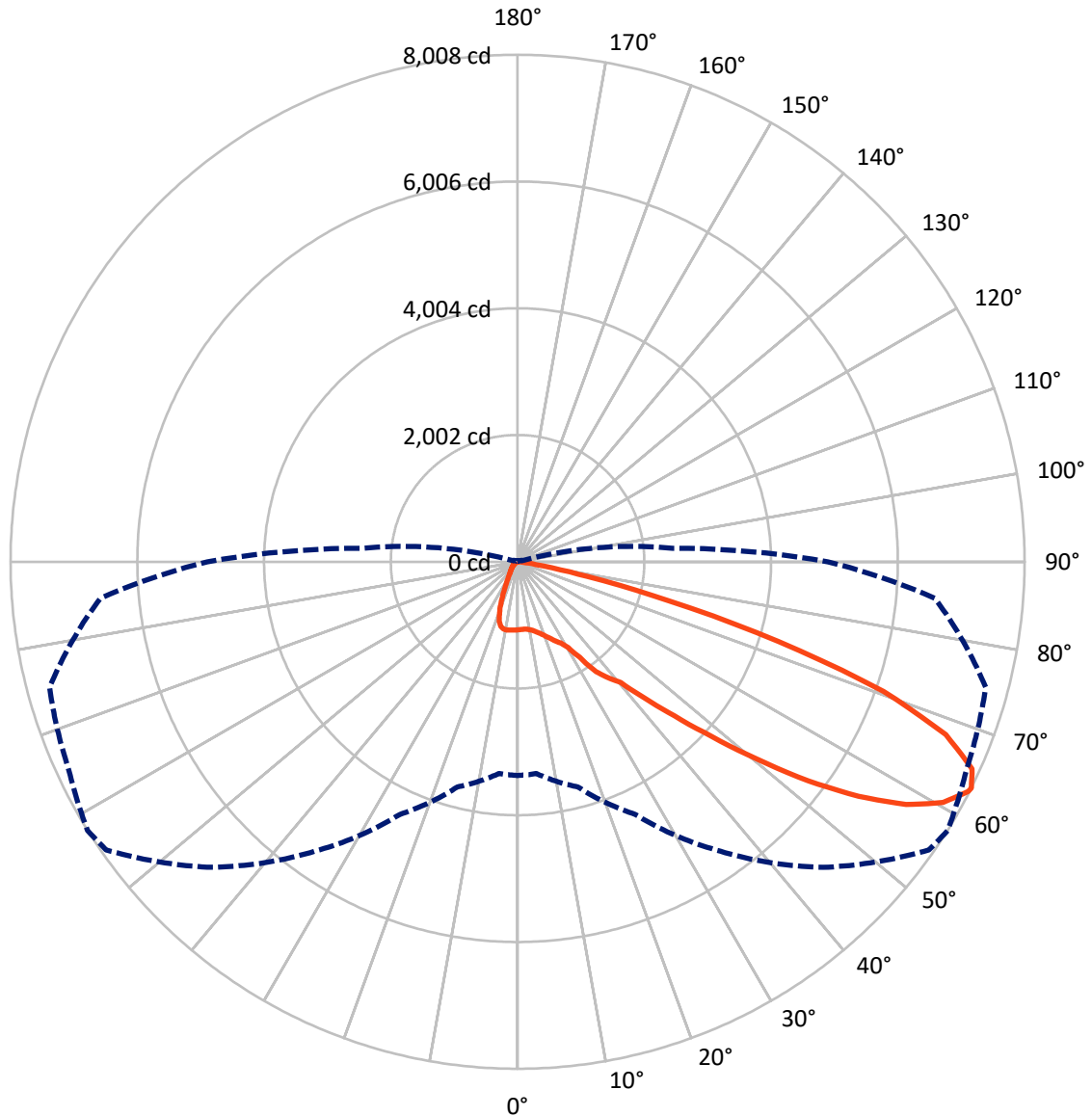
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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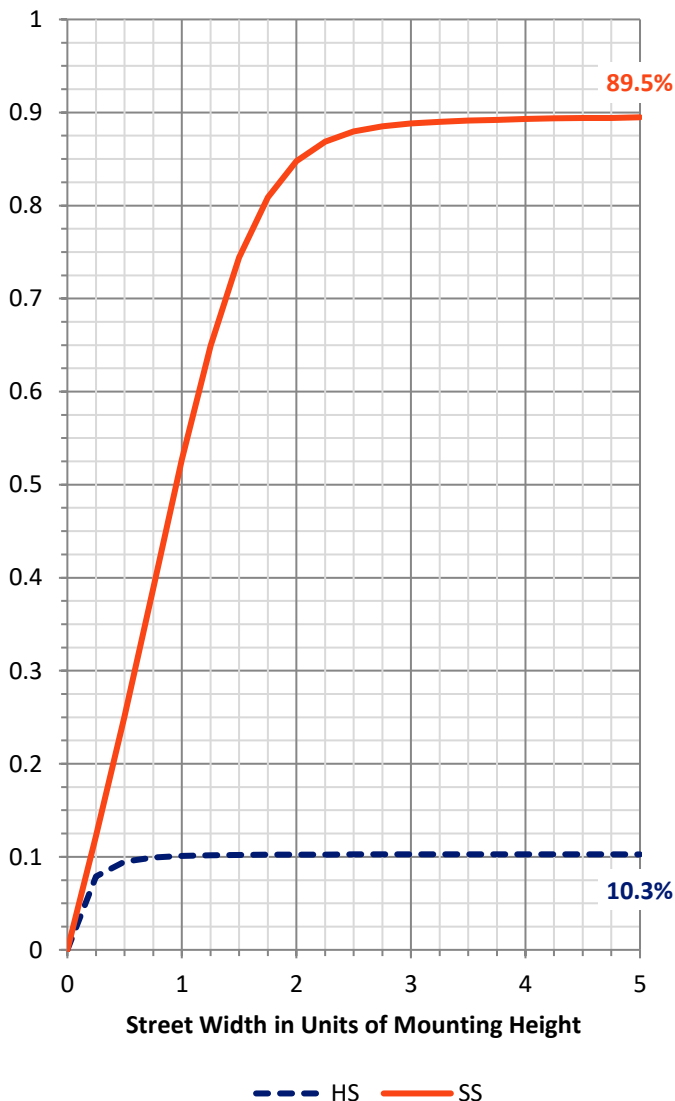
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	994.5	0.0	994.5
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	8610.5	0.0	8610.5
	% Fixture	89.6	0.0	89.6
Total	Lumens	9605.1	0.0	9605.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.7	1.0
10°-20°	274.2	2.9
20°-30°	475.8	5.0
30°-40°	874.4	9.1
40°-50°	1646.1	17.1
50°-60°	2815.5	29.3
60°-70°	2695.8	28.1
70°-80°	687.5	7.2
80°-90°	35.2	0.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	9605.1	100.0
0°-180°	9605.1	100.0

Coefficient of Utilization



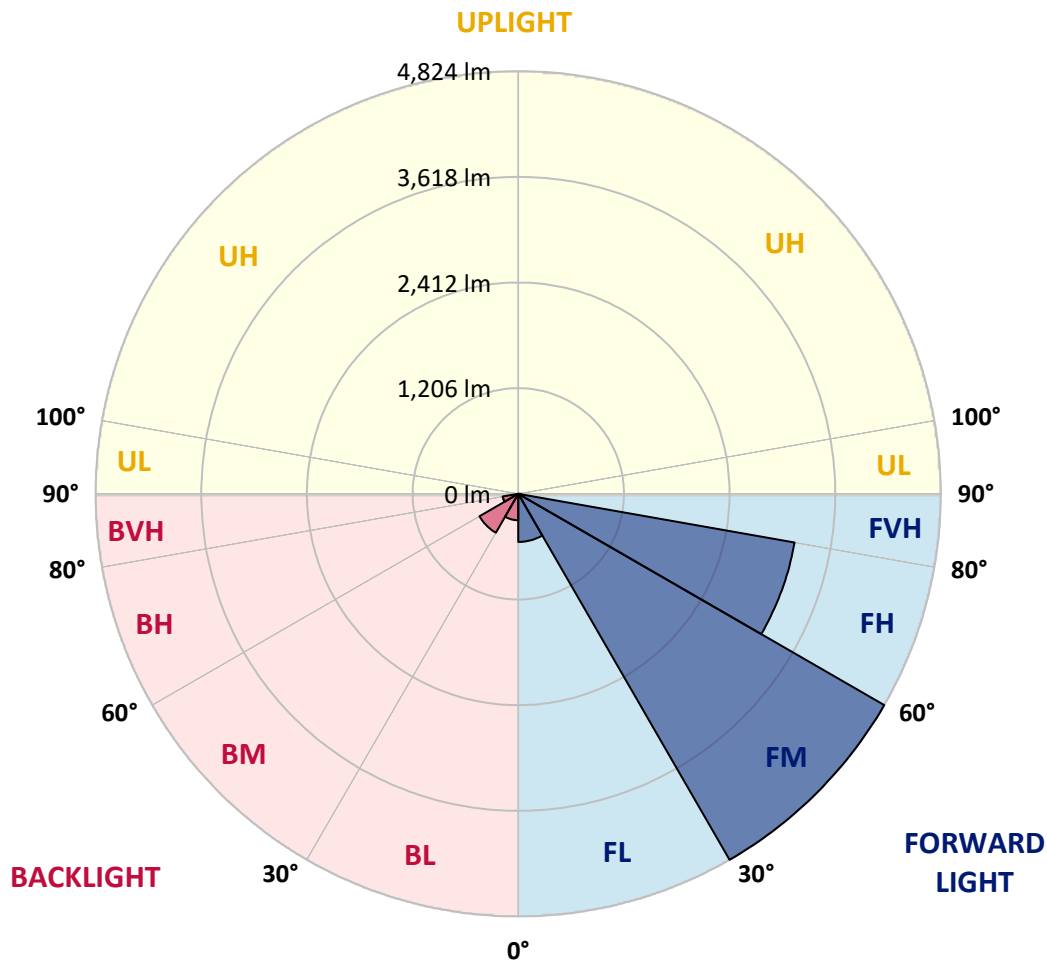
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	549.1	5.7			
FM (30°-60°)	4824.4	50.2			
FH (60°-80°)	3203.2	33.3			G2/5000
FVH (80°-90°)	33.8	0.4			G1/100
BL (0°-30°)	301.6	3.1	B1/500		
BM (30°-60°)	511.5	5.3	B1/1000		
BH (60°-80°)	180.0	1.9	B1/500		G1/500
BVH (80°-90°)	1.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3
2.5°	1048.6	1052.2	1055.8	1057.2	1062.3	1067.4	1071.0	1070.3	1076.1	1078.9	1078.9
5°	1006.6	1006.6	1016.0	1024.7	1039.1	1053.6	1067.4	1070.3	1081.1	1091.2	1094.8
7.5°	971.2	973.4	980.6	996.5	1016.0	1041.3	1068.8	1075.3	1094.1	1116.5	1125.9
10°	954.5	956.0	965.4	982.0	1006.6	1041.3	1079.7	1092.0	1120.9	1156.3	1169.3
12.5°	950.9	953.1	962.5	981.3	1009.5	1051.4	1103.6	1116.5	1158.5	1204.1	1223.6
15°	957.5	958.9	968.3	988.5	1019.6	1069.5	1135.4	1153.4	1203.3	1256.1	1281.4
17.5°	980.6	979.2	985.7	1002.3	1037.0	1092.0	1173.7	1195.4	1253.9	1326.3	1342.9
20°	1078.9	1069.5	1063.8	1049.3	1063.0	1123.7	1220.0	1251.7	1324.1	1397.8	1409.4
22.5°	1290.9	1269.8	1228.6	1172.2	1128.9	1167.1	1275.6	1312.5	1405.8	1478.1	1478.1
25°	1560.6	1533.8	1492.6	1369.7	1263.4	1238.8	1338.5	1384.8	1494.7	1567.8	1543.9
27.5°	1898.3	1877.3	1797.0	1653.8	1491.1	1363.8	1411.6	1454.3	1573.6	1661.8	1611.9
30°	2173.1	2163.0	2097.1	1969.1	1789.8	1604.0	1547.5	1575.8	1678.5	1780.4	1729.0
32.5°	2405.2	2405.2	2338.0	2218.6	2050.9	1885.9	1778.2	1798.5	1896.8	2014.7	1919.2
35°	2660.5	2651.8	2597.5	2484.0	2296.0	2150.7	2106.5	2134.0	2222.9	2310.5	2075.4
37.5°	2928.8	2925.8	2869.5	2759.6	2606.3	2423.3	2319.9	2327.1	2372.6	2426.2	2258.4
40°	3220.2	3224.6	3150.7	3082.8	2938.1	2750.8	2552.7	2507.2	2549.8	2701.0	2596.1
42.5°	3564.4	3554.3	3522.4	3429.9	3313.5	3201.4	2963.4	2946.9	2984.5	3146.4	3032.9
45°	3964.3	3978.8	3923.8	3872.5	3794.3	3701.1	3502.2	3473.3	3514.5	3766.2	3604.9
47.5°	4365.0	4351.2	4386.7	4377.2	4419.2	4349.7	4174.1	4114.8	4213.8	4452.4	4215.3
50°	4670.1	4685.3	4759.1	4866.8	5046.8	5085.9	4917.4	4897.1	4941.3	5094.6	4761.2
52.5°	4868.2	4918.8	5034.6	5311.5	5636.2	5888.6	5760.6	5749.7	5731.7	5772.9	5283.3
55°	4997.7	5049.0	5200.2	5608.0	6167.1	6577.0	6583.5	6537.3	6417.9	6388.3	5771.4
57.5°	4918.2	4928.3	5143.7	5689.0	6461.3	7068.1	7280.7	7234.4	7013.9	6901.8	6202.5
60°	4420.6	4441.6	4741.7	5382.4	6333.3	7228.6	7742.8	7721.8	7480.3	7353.7	6538.0
62.5°	3539.1	3599.8	3908.6	4623.1	5738.2	6958.2	7930.0	7989.3	7801.4	7627.0	6643.6
63°	3377.1	3357.6	3683.7	4401.8	5580.5	6824.4	7933.0	8008.2	7815.8	7653.1	6614.6
65°	2500.0	2558.5	2770.4	3471.1	4644.1	6201.7	7754.4	7887.4	7762.3	7538.1	6294.3
67.5°	1403.6	1400.8	1635.1	2271.4	3250.5	4864.6	7011.7	7293.0	7266.9	6764.3	5217.6
70°	687.0	697.9	794.0	1177.3	1885.3	3356.2	5826.4	6130.1	6139.6	5313.0	3607.8
72.5°	310.9	316.0	384.8	573.5	969.0	1786.9	4014.9	4304.9	4251.4	3385.8	1992.2
75°	164.2	175.0	211.8	288.5	467.2	736.9	2183.9	2464.5	2352.4	1546.9	733.3
77.5°	121.5	125.1	143.9	183.7	250.2	287.1	942.3	1120.9	1050.0	559.7	243.0
80°	89.0	91.8	107.1	130.2	157.7	146.1	355.1	407.1	365.2	190.2	74.5
82.5°	54.2	55.0	78.1	96.9	99.1	81.7	117.2	125.8	131.6	107.1	40.5
85°	19.5	24.6	52.8	70.1	58.5	41.2	49.2	54.2	59.3	68.0	23.9
87.5°	2.2	2.9	25.3	34.0	16.7	15.2	18.1	20.3	21.7	25.3	11.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3
2.5°	1081.9	1084.7	1082.5	1078.9	1078.2	1076.1	1071.7	1071.7	1071.7	1073.1	1071.7
5°	1097.8	1099.9	1094.8	1087.6	1079.7	1069.5	1058.7	1052.2	1051.4	1050.0	1046.4
7.5°	1128.1	1131.0	1119.5	1102.0	1080.3	1055.8	1032.7	1011.0	1000.9	992.9	992.9
10°	1172.2	1175.1	1152.0	1120.9	1077.5	1027.6	972.6	922.7	883.7	865.6	861.3
12.5°	1225.0	1226.4	1188.2	1133.9	1062.3	966.1	849.0	739.7	663.9	629.2	625.5
15°	1282.9	1272.8	1222.1	1139.0	1019.0	839.6	637.1	503.3	424.5	401.3	410.0
17.5°	1341.5	1322.6	1248.1	1131.0	921.3	637.1	428.1	343.5	318.9	312.4	312.4
20°	1396.4	1370.4	1267.0	1096.3	752.1	438.9	317.5	297.2	292.8	288.5	289.2
22.5°	1451.4	1411.6	1283.6	1019.0	560.4	313.9	284.2	277.7	271.9	266.1	265.4
25°	1504.9	1449.9	1290.1	875.7	381.8	269.7	259.6	251.0	239.3	232.9	231.4
27.5°	1560.6	1496.2	1285.7	694.9	278.4	241.5	231.4	219.1	205.4	193.8	193.8
30°	1667.6	1584.4	1270.6	499.7	234.3	212.6	199.6	180.1	164.9	153.3	152.6
32.5°	1813.7	1699.4	1218.5	351.5	208.2	187.3	167.8	146.1	130.2	121.5	121.5
35°	1943.8	1815.1	1120.9	258.9	187.3	162.7	138.8	117.9	105.5	99.8	97.6
37.5°	2141.9	1984.3	986.4	210.4	167.0	141.0	116.4	96.9	86.8	82.4	82.4
40°	2439.2	2191.1	821.5	184.4	147.5	120.0	96.9	81.7	73.8	68.7	68.7
42.5°	2808.0	2444.3	654.5	165.6	129.4	103.4	81.0	69.4	62.1	58.5	57.9
45°	3272.2	2711.0	504.0	148.3	115.0	88.2	68.7	58.5	51.4	49.2	49.9
47.5°	3756.7	2946.1	390.5	133.0	99.8	74.5	58.5	50.6	45.6	42.6	42.6
50°	4170.4	3108.1	296.5	115.7	88.2	62.9	51.4	45.6	41.2	39.8	39.0
52.5°	4516.1	3155.1	227.1	100.5	77.4	54.2	45.6	41.2	37.6	35.4	35.4
55°	4810.4	3113.9	177.9	84.6	65.1	47.0	40.5	36.9	32.5	30.4	29.7
57.5°	4982.5	2981.5	136.0	70.1	52.8	39.0	35.4	31.1	26.1	22.5	22.5
60°	5069.3	2789.2	104.1	57.9	40.5	31.1	28.9	23.1	18.1	15.2	14.5
62.5°	4965.2	2533.9	78.8	45.6	30.4	23.1	19.5	16.7	11.6	8.7	8.7
63°	4900.8	2460.2	75.9	43.4	28.2	21.7	18.1	15.2	10.1	8.0	7.2
65°	4467.6	2138.3	62.1	34.7	22.5	15.2	12.3	10.8	7.2	3.6	2.9
67.5°	3547.8	1635.7	49.2	26.1	15.9	10.8	7.2	6.5	2.2	0.0	0.0
70°	2398.7	1056.5	38.3	18.8	10.8	6.5	3.6	2.9	0.8	0.0	0.0
72.5°	1251.1	541.6	29.7	13.7	6.5	4.4	2.2	0.8	0.0	0.0	0.0
75°	442.5	184.4	21.7	8.7	4.4	2.2	0.8	0.0	0.0	0.0	0.0
77.5°	133.8	68.7	13.7	6.5	2.9	1.4	0.0	0.0	0.0	0.0	0.0
80°	47.0	25.3	8.0	4.4	2.2	0.8	0.0	0.0	0.0	0.0	0.0
82.5°	23.1	12.3	5.0	3.6	2.2	0.8	0.0	0.0	0.0	0.0	0.0
85°	13.0	8.0	4.4	3.6	2.2	1.4	0.0	0.0	0.0	0.0	0.0
87.5°	9.4	5.8	4.4	3.6	2.9	1.4	0.8	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)